jean-françois**pambrun**

researcher | engineer | software developer

about

(514) 222-2085
8150 rue fabre
montréal
canada

jf.pambrun@gmail.com
linkedin://jpambrun
github://jpambrun

languages

bilingual french/english

programming

java, javascript
matlab, c, c++
linux, xml, git
html5, latex

standards

dicom, ihe, hl7
jpeg 2000, jpip

education

since 2011	**Ph.D. in electrical engineering (in progress)**	École de technologie supérieure (ÉTS)
	improving medical image compression and transmission	
2009-2010	**M.Sc. in electrical engineering (fast-track)**	École de technologie supérieure (ÉTS)
	evaluating the diagnostic quality of lossy compressed images	
2005-2009	**B.ing. in electrical engineering**	École de technologie supérieure (ÉTS)
	information technologies and telecommunication specialization	
2001-2005	**DEC in computerized systems technology**	Cégep de lOutaouais

experience

2009-2014	**lecturer**	École de technologie supérieure (ÉTS)
	software development environment (ele116)	
	image processing and analysis (ele747)	
2009-2014	**teaching assistants**	École de technologie supérieure (ÉTS)
	healthcare distributed systems (gts840)	
	software development environment (ele116)	
	image processing and analysis (ele747)	
01-09 2009	**software developer**	CAE inc.
	head-up display simulation for military flight simulators	
2006-2008	**research assistant**	École de technologie supérieure (ÉTS)
	implementation of a standard compliance validation tool for hl7v3	
	implementation and evaluation of a medical image streaming platform	

awards

2014	**SIIM annual meeting best scientific poster**	500$
2011	**NSERC doctoral Alexander-Graham-Bell scholarship**	35,000$/yr
2011	**ÉTS excellence graduate student scholarship**	20,000$/yr
2011	**FRQNT doctoral research scholarship**	20,000$/yr
2009	**FRQNT master's research scholarship**	15,000$/yr
2006	**NSERC undergraduate student research awards**	4,500$

volunteer work

since 2013	**NPO board member**	Association étudiante de l'ÉTS
	vice-president of services	
	academic commission student representative	
	disciplinary committee student representative	

publication

articles in peer-reviewed journals

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based Guidelines

Pambrun J.F. Noumeir R.

Journal of Digital Imaging. *Springer Science, 2015*

Teaching DICOM by Problem Solving.

Noumeir R. Pambrun J.F.

Journal of Digital Imaging. *Springer Science, 2012*

Streaming of medical images using JPEG2000 interactive protocol

Pambrun J.F. Noumeir R.

International Journal of Innovative Computing and Applications. *2012*

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

Noumeir R. Pambrun J.F.

Journal of Digital Imaging. *Springer Science, 2010*

international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging(accepted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Image Processing (ICIP), 2015

VOI-Based JPEG 2000 Compression for Medical Applications(submitted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Kurtosis Constrained Image Compression for Medical Applications(submitted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Learning DICOM by solving real clinical problems

Noumeir R. Pambrun J.F.

IEEE-EMBS International Conference on Biomedical and Health Informatics, 2012

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various slice thicknesses

Pambrun J.F. Noumeir R.

IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

Pambrun J.F. Noumeir R.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

Noumeir R. Pambrun J.F.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

Noumeir R. Pambrun J.F.

IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

Berube R, Pambrun J.F, Noumeir R.

IEEE International Conference on Internet and Web Applications and Services. 2010

Images within the Electronic Health Record

Noumeir R. Pambrun J.F.

IEEE International Conference on Image Processing. 2009